What is claimed is:

1. A support frame for a tire assembly of a mobile irrigation system that

includes a tower structure, comprising;

a first support member for supporting the tire assembly on one side,

a second support member for supporting a tire assembly on the opposite

side and connected to the first support member, and

a force transfer member connected between the first support member and

the tower structure for transferring forces generated by the tire assembly to the

tower structure.

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10 2. The support frame of claim 1, wherein the force transfer member is

adjustably mounted to the tower structure.

3. The support frame of claim 1, wherein the first support member and the

second support member are connected by a third support member.

4. The support frame of claim 3, wherein the third support member

comprises an adjustable telescoping member.

5. The support frame of claim 1, further comprising an adjustable connection

between the second support member and the tire assembly.

6. The support frame of claim 3, wherein the second support member is

adjustably connected to the third support member.

- 7. The support frame of claim 6, further comprising a female member connected to the third support member that telescopically receives one end of
- 8. The support frame of claim 7, further comprising a compensation spring

 located between the second support member and the female member to adjust

 to forces applied to the support frame caused by uneven terrain.
 - 9. The support frame of claim 1, wherein the tire assembly comprises first and second tires mounted on an axle, and a flexible ground engaging member surrounding the first and second tires to provide a ground engaging surface to distribute the weight of the tower structure on the ground.
 - 10. A tire assembly of a mobile irrigation system that includes a tower structure, comprising

first and second tires mounted on an axle, and a flexible ground engaging member surrounding the first and second tires to provide a ground engaging surface to distribute the weight of the tower structure on the ground,

a support frame for supporting the tire assembly, and

a force transfer member connected between the support frame and the tower structure for transferring forces generated by the tire assembly to the tower structure.

20 11. The tire assembly of claim 10, wherein the support frame comprises a first support member for supporting the tire assembly on one side and a second

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the second support member.

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support member for supporting a tire assembly on the opposite side and

connected to the first support member, wherein the force transfer member is

connected between the first support member and the tower structure.

The tire assembly of claim 11, wherein the force transfer member is 12.

adjustably mounted to the tower structure.

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13. The tire assembly of claim 11, wherein the first support member and the

second support member are connected by a third support member.

14. The tire assembly of claim 13, wherein the third support member

comprises an adjustable telescoping member.

The tire assembly of claim 11, further comprising an adjustable connection 10 15.

between the second support member and the tire assembly.

The tire assembly of claim 13, wherein the second support member is 16.

adjustably connected to the third support member.

17. The tire assembly of claim 13, further comprising a female member

connected to the third support member that telescopically receives one end of

the second support member.

The tire assembly of claim 17, further comprising a compensation spring 18.

located between the second support member and the female member to adjust

to forces applied to the support frame caused by uneven terrain.

A corner sweeping unit for an irrigation system, comprising 19.

a tire assembly including first and second tires mounted on an axle, and a flexible ground engaging member surrounding the first and second tires to provide a ground engaging surface to distribute the weight of the tower structure on the ground as the tire assembly is driven about a swivel support tube, and

a support frame for adjustably supporting the tire assembly.

- 20. The corner sweeping unit of claim 19, wherein the support frame comprises a first support member for supporting the tire assembly on one side, and a second support member for supporting a tire assembly on the opposite side thereof, the second support member being telescopically connected to the first support member to accommodate tire assemblies of varying widths.
- 21. The corner sweeping unit of claim 20, wherein the second support member is adjustably connected to the tire assembly.
- 22. The corner sweeping unit of claim 21, wherein the second support member includes male and female telescoping members.
- 15 23. The corner sweeping unit of claim 22, further comprising a compensation spring located between the male and female members to adjust to forces applied to the support frame caused by uneven terrain.
 - 24. The corner sweeping unit of claim 23, further comprising an adjustment member for adjusting the force applied by compensation spring to the tire

assembly.

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- 25. The corner sweeping unit of claim 20, wherein the first support member is adjustably connected to the tire assembly.
- 26. The corner sweeping unit of claim 20, wherein the first support member

includes male and female telescoping members.

- The corner sweeping unit of claim 26, further comprising a compensation spring located between the male and female members to adjust to forces applied to the support frame caused by uneven terrain.
 - 28. The corner sweeping unit of claim 27, further comprising an adjustment member for adjusting the force applied by compensation spring to the tire
- 10 assembly.